

IN THE CLAIMS

Claim 1. (currently amended) A shower system comprising:
a shower stall comprising a sidewall, a ceiling, and a base, said shower stall defining a shower area;
a shower stall housing enclosing said shower stall, wherein an air channel is defined between said shower stall and said shower stall housing;
at least one misting nozzle positioned within said shower stall;
at least one water pipe feeding said at least one misting nozzle;
at least one height sensor generating a height of user signal;
and a controller directing misted air through said at least one misting nozzle, said controller further activating an air flow system such that misted air within said shower area flows through and is dried in said air channel.

Claim 2. (original) The system of claim 1, wherein said shower stall comprising a cylindrical, cubicle, conical, or irregular shape defining said shower area.

Claim 3. (original) The system of claim 1 further comprising a user accessible water input tank receiving water from a user prior to said user taking a shower.

Claim 4. (original) The system of claim 1 further comprising an input display, wherein commands are entered for at least one of user height or user desired temperature.

Claim 5. (original) The system of claim 1, wherein said controller receives at least one of: a height of user signal, a temperature within said shower area signal, or a distance signal and adjusts said at least one misting nozzle as a function thereof.

Claim 6. (canceled)

Claim 7. (original) The system of claim 5 further comprising at least one temperature sensor generating a temperature within said shower area signal.

Claim 8. (currently amended) The system of claim 5 further comprising at least one distance sensor generating a distance signal as a function of a distance between said at least one misting nozzle and a user.

Claim 9. (canceled)

Claim 10. (original) The system of claim 1 further comprising a plurality of misting nozzles.

Claim 11. (original) The system of claim 10 further comprising a first number of said plurality of misting nozzles on a first row receiving water from said pipe.

Claim 12. (original) The system of claim 11 further comprising a second number of said plurality of misting nozzles mounted on a second row receiving water from said pipe.

Claim 13. (original) The system of claim 12 further comprising a third number of said plurality of misting nozzles mounted on a third row receiving water from said pipe.

Claim 14. (canceled).

Claim 15. (original) The system of claim 1, wherein said base defines at least one opening for receiving mist.

Claim 16. (original) The system of claim 15, wherein said base is perforated.

Claim 17. (original) The system of claim 1, wherein sides of said shower stall and said shower stall housing comprise at least one condensing surface.

Claim 18. (currently amended) The system of claim [[1]] 17 further comprising a drain receiving water from said ~~condensed surfaces~~ at least one condensing surface.

Claim 19. (previously amended) The system of claim 1, wherein said controller further comprises logic for activating a misting cycle wherein a mist is directed out of said at least one misting nozzle for a passenger selectable time period within a first predetermined time period, activating a soaping cycle for a passenger selectable time period within a second predetermined time period, activating a rinsing cycle for a passenger selectable time period within a third predetermined time period, activating a drying cycle for a passenger selectable time period within a fourth predetermined time period, and activating a cleaning cycle in response to the user leaving said shower area for a fifth predetermined time period.

Claim 20. (previously presented) The system of claim 19, wherein said first time period is less than 60 seconds, said second time period is less than 240 seconds, said third time period is less than 600 seconds, said fourth time period is less than 600 seconds, and said fifth time period is less than 90 seconds.

Claim 21. (currently amended) An airplane shower system comprising:
a changing area;
a shower stall adjacent to said changing area such that a user enters said shower stall directly from said changing area, said shower stall substantially cylindrical in shape and comprising,
a primary wall comprising a sidewall comprising an interior surface and an exterior surface, a ceiling and a base, said interior surface of said primary wall defining a shower area, said interior surface comprising a hydrophobic surface, said exterior surface comprising a first condensing surface,
a secondary wall comprising an inner surface, said inner surface of said secondary wall comprising a second condensing surface, wherein an air channel is defined between said exterior surface of said primary wall and said inner surface of said secondary wall

such that water within mist flowing through said air channel condenses on said first condensing surface and said second condensing surface;

a first row of misting nozzles coupled to said primary wall such that said first row of misting nozzles direct mist into said shower area at multiple angles with respect to a central area of said shower area, wherein said central area is substantially trans-axial to said shower stall;

a second row of misting nozzles coupled to said primary wall below said first row of misting nozzles such that said second row of misting nozzles direct mist into said shower area;

a fan coupled to said shower stall;

a controller activating said first row of misting nozzles and said second row of misting nozzles when a user is within a first height range and activating said second row of misting nozzles when said user is within a second height range, said controller further controlling said fan, thereby blowing misted air out of said shower area and through said base whereby said misted air flows ~~though~~ through said air channel.

Claim 22. (previously presented) The system of claim 21, wherein said primary wall comprises a cylindrical, cubicle, conical, or irregular shape defining said shower area.

Claim 23. (previously presented) The system of claim 19 further comprising a user accessible water input tank receiving water from a user prior to said user taking a shower.

Claim 24. (previously presented) The system of claim 21 further comprising an input display wherein commands are entered for at least one of user height or user desired temperature.

Claim 25. (previously presented) The system of claim 21 further comprising at least one height sensor generating a height of user signal.

Claim 26. (previously presented) The system of claim 21 further comprising at least one temperature sensor generating a temperature within said shower area signal.

Claim 27. (currently amended) The system of claim 21 further comprising at least one distance sensor generating a signal as a function of a distance between at least one of said plurality of misting nozzles and a user.

Claim 28. (previously presented) The system of claim 21 further comprising at least one water pipe feeding said plurality of misting nozzles.

Claim 29. (previously presented) The system of claim 19 further comprising a third number of said plurality of misting nozzles mounted on a third row receiving water from said pipe.

Claim 30 (previously presented) The system of claim 21, wherein said base defines at least one opening for receiving mist.

Claim 31 (previously presented) The system of claim 21, wherein said base is perforated.

Claim 32. (currently presented) The system of claim 31 further comprising a drain receiving water from said ~~condensed~~ condensing surfaces.

Claim 33. (canceled).

Claim 34. (canceled).

Claim 35. (canceled).

Claim 36. (canceled).

Claim 37. (previously presented) A shower system for showering of a user comprising:

- a primary wall comprising a sidewall comprising an interior surface and an exterior surface, a ceiling and a base, said interior surface of said primary wall defining a shower area, said interior surface comprising a hydrophobic surface, said exterior surface comprising a first condensing surface;

- a secondary wall comprising an inner surface, said inner surface of said secondary wall comprising a second condensing surface, wherein an air channel is defined between said exterior surface of said primary wall and said inner surface of said secondary wall such that water within mist flowing through said air channel condenses on said first condensing surface and said second condensing surface;

- a first row of misting nozzles coupled to said primary wall such that said first row of misting nozzles direct mist into said shower area at multiple angles with respect to a central area of said shower area, wherein said central area is substantially trans-axial to said shower stall;

- a second row of misting nozzles coupled to said primary wall below said first row of misting nozzles such that said second row of misting nozzles direct mist into said shower area;

- a fan coupled to at least a portion of at least one of said ceiling or said base; and

- a controller comprising logic for receiving a height signal based on a height of the user, activating said first row of misting nozzles and said second row of misting nozzles as a function of said height signal, activating a misting cycle wherein a mist is directed out of said first row of misting nozzles and said second row of misting nozzles, activating a soaping cycle, activating a drying cycle, activating a cleaning cycle in response to the user leaving said shower area, and blowing air into said shower area, thereby forcing misted air out of said shower area and into said air channel.

Claim 38. (previously presented) The system of claim 37 further comprising a user accessible water input tank receiving water from the user prior to the user taking a shower.

Claim 39. (previously presented) A shower system for a vehicle comprising:
a changing area;
a shower stall adjacent to said changing area such that a user enters said shower stall directly from said changing area, said shower stall comprising,
a primary wall comprising a sidewall comprising an interior surface and an exterior surface, a ceiling and a base, said interior surface of said primary wall defining a shower area, said interior surface comprising a hydrophobic surface,
a secondary wall comprising an inner surface, wherein an air channel is defined between said exterior surface of said primary wall and said inner surface of said secondary wall such that water within mist flowing through said air channel condenses within said air channel;
a first row of misting nozzles coupled to said primary wall such that said first row of misting nozzles direct mist into said shower area at multiple angles with respect to a central area of said shower area;
a fan coupled to said shower stall; and
a controller activating said first row of misting nozzles when a user is within a first height range, said controller further controlling said fan, thereby blowing misted air out of said shower area and through said base whereby said misted air flows through said air channel.

Claim 40. (previously presented) The system of claim 39 further comprising a second row of misting nozzles coupled to said primary wall below said first row of misting nozzles such that said second row of misting nozzles direct mist into said shower area.

Claim 41. (previously presented) The system of claim 40, wherein said controller activates said second row of misting nozzles when a user is within a second height range.

Claim 42. (previously presented) The system of claim 40, wherein at least one of said inner surface of said secondary wall, said exterior surface of said primary wall, or an exterior surface of said base comprise a condensing surface.

Claim 43. (previously presented) The system of claim 40 further comprising a user accessible water input tank receiving water from a user prior to said user taking a shower.

Claim 44. (previously presented)

The system of claim 40, wherein the controller further comprises logic for activating a misting cycle wherein a mist is directed out of said first row of misting nozzles, activating a soaping cycle, activating a drying cycle, and activating a cleaning cycle in response to the user leaving said shower area.

Claim 45. (previously presented) The system of claim 40 wherein said controller activates a third row of misting nozzles and a fourth row of misting nozzles when a user is within a third height range and a fourth height range respectively.

Claim 46. (previously amended) The system of claim 39, wherein said controller further comprises logic for activating a misting cycle wherein a mist is directed out of said at least one misting nozzle for a passenger selectable time period within a first predetermined time period, activating a soaping cycle for a passenger selectable time period within a second predetermined time period, activating a rising cycle for a passenger selectable time period within a third predetermined time period, activating a drying cycle for a passenger selectable time period within a fourth predetermined time period, and activating a cleaning cycle in response to the user leaving said shower area for a fifth predetermined time period.

Claim 47. (previously presented) The system of claim 46, wherein said first time period is less than 60 seconds, said second time period is less than 240 seconds, said third time period is less than 600 seconds, said fourth time period is less than 600 seconds, and said fifth time period is less than 90 seconds.

Claim 48. (new) A shower system comprising:

- a shower stall comprising a sidewall, a ceiling and a base, said shower stall defining a shower area,
- a shower stall housing enclosing said shower stall, wherein an air channel is defined between said shower stall and said shower stall housing,
- a plurality of misting nozzles positioned within said shower stall,
- at least one water pipe feeding said plurality of nozzles,
- a first number of said plurality of misting nozzles on a first row receiving water from said pipe,
- a second number of said plurality of misting nozzles mounted on a second row receiving water from said pipe, and
- a controller activating said first row of misting nozzles and said second row of misting nozzles when a user is within a first height range and activating only said second row of misting nozzles when said user is within a second height range, said controller further activating an air flow system such that misted air within said shower area flows through and is dried in said air channel.

Claim 49. (new) A shower system comprising:

- a shower stall comprising a sidewall, a ceiling and a base, said shower stall defining a shower area,
- a shower stall housing enclosing said shower stall defining a shower area,
- a plurality of misting nozzles positioned within said shower stall,
- at least one water pipe feeding said plurality of misting nozzles, positioned within said shower stall, wherein a first number of said plurality of misting nozzles mounted on a first row receives water from said pipe and a second number of said plurality of misting nozzles mounted on a second row receives water from said pipe, and
- a controller activating said first row of misting nozzles and said second row of misting nozzles when a user is within a first height range and activating only said second row of misting nozzles when said user is within a second height range.